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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,530	09/16/2003	H. Britton Sanderford JR.	241569US20CONT	1703
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			· TSE, YOUNG TOI	
ALEXANDRI	A, VA 22314		ART UNIT PAPER NUMBER	
,			2611	
			NOTIFICATION DATE	DELIVERY MODE
	•		01/02/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

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	Application No.	Applicant(s)	
	10/662,530	SANDERFORD ET AL.	
Office Action Summary	Examiner	Art Unit	
	YOUNG T. TSE	2611	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a rund will apply and will expire SIX (6) MON Lute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29	November 2007		
2a) ☐ This action is FINAL 2b) ☑ Th	nis action is non-final.		
3) Since this application is in condition for allow	ance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application	on.		
4a) Of the above claim(s) 31 is/are withdrawn		•	
5)⊠ Claim(s) <u>9,11-16,19-20,22-24 and 27-30</u> is/a	re allowed.		
6)⊠ Claim(s) <u>1-8,10,17,18,21,25 and 26</u> is/are re	jected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	•	•	
11) The oath or declaration is objected to by the I	Examiner. Noté the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	and a first of the state of the		
 Certified copies of the priority docume Certified copies of the priority docume 		nnlication No	
2. Certified copies of the priority docume3. Copies of the certified copies of the priority			
application from the International Bure	•	received in this National Otage	
* See the attached detailed Office action for a lis		received.	
	-		
Attachment(s)			
1) Notice of References Cited (PTO-892)		summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date	6) Other:		

Art Unit: 2611

DETAILED ACTION

Response to Arguments

Applicant's arguments, see pages 19-24, filed on 29 November 2007, with respect to 35 U.S.C. 103(a) have been fully considered and are persuasive. The rejection of 9 has been withdrawn.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the synchronization mechanism as recited in claim 8 and the multiplexer mechanism as recited in claim 24 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering Art Unit: 2611

of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claims 1-30 are objected to because of the following informalities:

In claim 1 line 11, "sequences" should be "sequence".

In claim 5, line 2, "quadrature amplitude modulation (QAM)" should be "QAM".

The dependent claims 2-4 and 6-8 depend from claim 1.

In claim 9, lines 11 and 15, "0.1%" and "each receive" should be "1%" as described in paragraphs [0123] and [0170] of the specification and "each receives", respectively.

In claim 10, lines13 and 24, "sequences" and "an encoded" should be "sequence" and "the encoded", respectively.

In claim 11, line 2, "a first data packet on a" should be "the first data packet on the"; and both lines 4 and 8, "the signal" should be "the modulated signal".

In claim 14, line 6, "each receive" should be "each receives"; line 14, "a first" should be "a second"; and lines 14 and 17, "higher" should be "is higher".

In claim 17, line 7, "receive" should be "receives".

In claim 18, lines 6-7, "a timer and an" should be "the timer and the".

Application/Control Number:

10/662,530 Art Unit: 2611

In claim 21, line 3, "at a" should be "at the".

In claim 25, line 2, "receiver" should be "receivers each".

In claim 26, line 4, "a FM" should be "the FM" and line 6, "a modulation" should be "the modulation".

The dependent claims 12-13, 15-6, 19-20, 22-24 and 27-30 depend from claim 9. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-8, 10, 17-18, 21 and 25-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1-7, 10, 17, and 21, "p", "M", "λ", "N", and "B" are all undefined.

In claim 6 (line 2), claim 18 (line 16), and claim 25 (lines 2, 3, 15, and 28), the phrases "the DC component", "the low power state", "the first and second base station", "the signal", "the subdemodulator", and "the original data stream" all lack antecedent basis.

The claimed subject matter recited in claim 8 lacks cooperation or connection the precedent claim 1.

The claimed subject matter of claim 26 is related to the steps of a method.

However, the precedent claims 9 and 25 are apparatus claim and it is unclear which

Art Unit: 2611

claimed element(s) recited in the precedent claims 9 and 25 is based to perform the steps of claim 26.

Allowable Subject Matter

- 6. Claims 1-8, 10, 17-18, 21 and 25-26 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. Claims 1-30 would be allowable if rewritten or amended to overcome the objections set forth in this Office action.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wagner et al. and Bolinth et al. relate to systems each comprising a transmitter section and a receiver section. Wherein the transmitter section comprises a QAM modulator and a FSK modulation and the receiver section comprises a QAM demodulator and a FSK demodulator.

Matsuda et al., Farley et al. and Attar et al. related to communication systems, wherein each system comprises a first wireless base station for transmitting data packets to subscriber stations within a first coverage area and a second wireless base station for transmitting data packets to subscriber stations within a second coverage area that overlaps with the first coverage area.

10/662,530

Art Unit: 2611

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OUNG T. TSE Primary Examiner

Art Unit 2611